997024

R & D CATALOG FORM

DATE: 6 January 1965

1. PROJECT TITLE/CODE NAME: Twin Light Source Light Table

2. SHORT PROJECT DESCRIPTION: This project proposes the development of a stereoscopic light table which has two independently variable light sources and which is capable of being tilted.

3. CONTRACTOR NAME: [redacted]

4. LOCATION OF CONTRACTOR: [redacted]

5. CLASS OF CONTRACTOR: Manufacturer

6. TYPE OF CONTRACT: FP

25X1A

7. FUNDS:
FY 1965 [redacted]
FY 19 $
FY 19 $

25X1A

8. REQUISITION NO.: 5500-8631-65

9. BUDGET PROJECT NO.: NP-V-11

10. EFFECTIVE CONTRACT DATE (Begin - end): February 1965 - May 1965

11. SECURITY CLASS.:
A. A. - Conf.
T - Unclass.
W - Unclass.

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION: DDI/NPIC/P&DS [redacted]

25X1A

13. REQUIREMENT/AUTHORITY: PD/NPIC requested light source for stereoviewing in which the intensity of each viewing channel can be independently controlled.

14. TYPE OF WORK TO BE DONE: Engineering development.

15. CATEGORIES OF EFFORT

MAJOR CATEGORY	SUB-CATEGORIES
Viewers and Other Interpretation Equipment	Interpretation/Analysis
	Light Sources
	Photo Reconnaissance
	Visual

16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC.: One prototype light table with independently controllable stereoscopic light sources for use with chips.

17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION: Due to contacts throughout industry and the intelligence community, it has been concluded that no device of this type is presently in existence.

18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on additional page if required): Light tables which are currently being used and which have a support for a stereoscope do not have sufficiently large, independently illuminated viewing areas, and they cannot be tilted to positions convenient for the user. If stereo pairs have different densities or require differing magnifications, it has been impossible for the operator to achieve balanced illumination. The development will allow the operator to independently vary the intensity of the two light sources.

This development requires the fabrication of one prototype, twin light source, stereoscopic light table and one set of directly reproducible manufacturing

19. APPROVED BY AND DATE

OFFICE	DEPUTY DIRECTOR	DDCI

R & D CATALOG Form (Continued)

18. drawings and specifications. The project should result in a sophisticated prototype built with proper attention to human engineering. The prototype is to be evaluated under operational conditions.

The main purpose of this development is to obtain a stereoscopic light table that will enable the operator to vary illumination intensity of each of the viewing channels. The table can be tilted to positions convenient for the operator.

The twin light source, stereoscopic light table will be a prototype device incorporating the following characteristics:

a. The table may be tilted from 0^{o} - 45^{o}.

b. For use with stereo chips, it will have an adequate viewing area divided by a removable partition into two independent light sources for viewing stereo-pairs which differ in densities or scale.

c. The light sources are to be high-intensity, cold, cathode grids which will provide maximum screen brightness and evenness of illumination. Maximum intensity for each light source will be 2000 foot-lamberts.

d. The design is to incorporate a highly reliable dimming control by which brightness can be varied over the entire range (2000-200 foot-lamberts) without flickering.

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e. The tilting mechanism is a captive slotted linkage which provides continuous adjustment throughout the 45^{o} range.